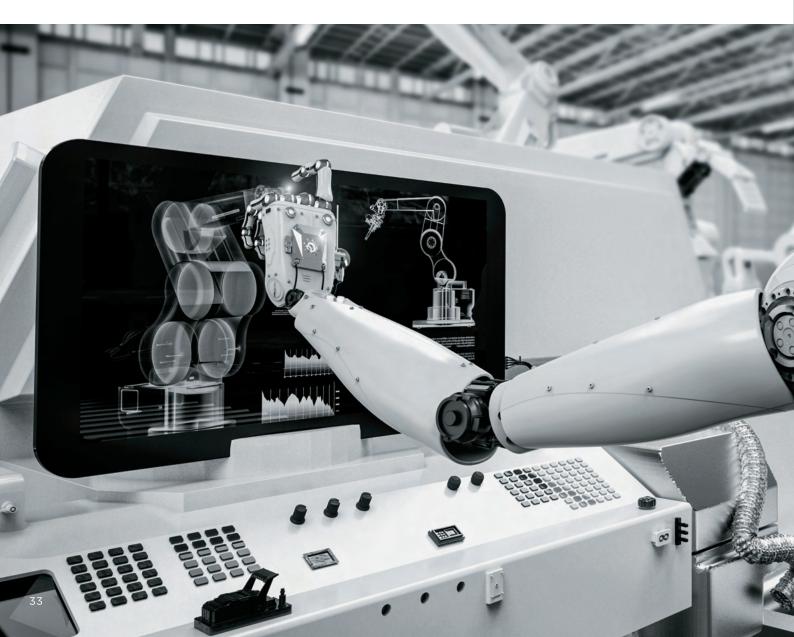
## Lateral Couplings









#### **Features**

Principle A lateral coupling is equipped with a torque ring,

which 4 pivot pins bonded together in the shape of a cross. 2 hubs on the ends are interlocked via pivot pins. It is classified as flexible coupling and compensates misalignments by taking advantage of sliding.

Misalignment Large angular misalignment compensation

Hub-Shaft Connection Set screw

Fixes a shaft by digging sets crews into the shaft directly

Clamp

Fixes a shaft using elastic deformation of hub notch

by tightening cap screws

Fail-Safe Torque rings fracture to disengage troque transmission

when there is excessive overload

Backlash Zero backlash

Electric isolation Electrically isolated

Magnetic properties No magnetic properties except screws

- 00





















### **Lateral Couplings**

# ML/MLL/ MLC/MLXC

Coupling size 18~70

Inner diameter +0.03 2~22 mm

Torque **0.3** ~ **12.0** N·m



#### MLC



Clamp

#### MLXC

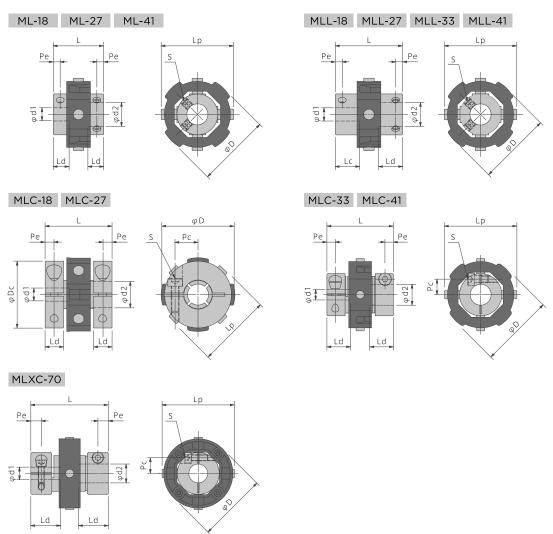


Clamp

#### **Specifications**

Turno	Size	Inner diameter	Torque	Lateral misalignment	Angular misalignment	Inertia	Torsional Spring constant	Axial Spring constant	Mass
Туре		d1, d2[mm]	[N·m]	[mm]	[°]	$[kg \cdot m^2 \times 10^{-8}]$	[N·m/rad]	[N/mm]	[g]
ML	18	2~5	0.3	1	10	20	25	155	7
MLL		6	0.3	1	10	20	25	155	7
MLC		3~6	0.3	1	5	55	25	155	11
ML	27	3~8	1.7	1	10	91	92	350	16
MLL		9, 10	1.7	1	10	91	92	350	16
MLC		4~8	1.7	1	5	220	92	350	26
MLC		9, 10	0.9	1	5	220	92	350	26
MLL	33	5~12	2.5	1	10	165	146	300	17
MLC	33	5~10	2.5	1	10	183	146	300	20
ML	41	6~12	3.5	1	10	476	299	250	30
MLL		14~16	3.5	1	10	476	299	250	30
MLC		6~12	3.5	1	10	550	299	250	40
MLXC	70	8~22	12.0	1	10	7,315	1,300	540	189

#### Drawings



#### **Dimensions**

Туре	Size	Inner diameter	Overall length	Pivot pin length	Outer diameter	Clamp ring diameter	Mounting length	Distance	Distance	Set screw	Cap screw	Torque
		d1, d2[mm]	L[mm]	Lp[mm]	D[mm]	Dc[mm]	Ld[mm]	Pe[mm]	Pc[mm]	S[mm]	S[mm]	[N·m]
ML	18	2~5	14.2	18.0	18.0	_	4.6	2.3	_	М3	_	0.72
MLL		6	19.1	18.0	18.0	_	7.0	2.3	_	М3	_	0.72
MLC		3~6	19.1	18.0	19.1	19.1	7.0	2.7	6.2	_	M2.5	1.2
ML	27	3~8	19.1	28.0	27.6	_	6.1	2.6	_	М3	_	0.72
MLL		9, 10	25.4	28.0	27.6	_	9.3	2.5	_	М3	-	0.72
MLC		4~8	25.4	28.0	27.6	25.4	9.3	3.5	8.7	_	М3	2.1
MLC		9, 10	25.4	28.0	27.6	25.4	9.3	3.5	8.7	_	М3	2.1
MLL	33	5~12	30.7	33.7	33.7	_	10.9	3.9	_	M4	_	2.0
MLC		5~10	30.7	33.7	33.7	_	10.9	4.2	7.3	–	M2.5	1.2
ML	41	6~12	28.4	41.4	41.4	_	8.6	3.8	_	M5	_	3.9
MLL		14~16	38.1	41.4	41.4	_	13.5	4.8	_	M5	-	3.9
MLC		6~12	38.1	41.4	41.4	_	13.5	4.8	8.9	_	M4	4.8
MLXC	70	8~22	74.0	69.0	66.0	_	28.5	10.0	15.0	_	М6	16.3

#### Materials

C:	H	ub	Clam	Torque ring		
Size	Material	Surface treatment	Material	Surface treatment	Material	
18, 27	Free-cutting brass	_	Aluminum alloy	Non-chromium chemical conversion treatment	Acetal	
33, 41, 70	Aluminum alloy	Non-chromium chemical conversion treatment	<del>-</del>	_	Acetat	